PORSF 11.3.125.121 01/26/92

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## North American Refractories Co.

A Member of The Didier Group

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500 Halle Building 1228 Euclid Avenue Cleveland, Ohio 44115-1809 216/621-5200

#### NORTH AMERICAN REFRACTORIES PRODUCT SAFETY DATA SHEET

MANUFACTURER

MSDS # 4026-00

NORTH AMERICAN REFRACTORIES

Vendor:

Emergency Phone Number East (814) 236-3890 West (415) 432-4741 Canada (416) 765-4404

MSDS prepared by: NORTH AMERICAN REFRACTORIES Technical Center (814) 234-7981

Date Issued: 01/26/92

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Date Revised: 01/14/91

Product Type: Refractory Mortar / Coating

Trade Name: COLDSET MORTAR

SECTION I - PRODUCT IDENTIFICATION

Chemical Name: Fireclay Mortar, Wet, Air Setting

Chemical Family: A1203, S102, Na20-S102, H20

\*\*\*\*\*\*\*\*\*\*\* SECTION II - CHEMICAL COMPOSITION \*\*\*\*\*\*\*\*\*

PCT: Hazardous Ingredients: CAS Number:

10.0 - 30.0%Crystalline Silica including: N/A

**Quartz** 14808-60-7 14464-46-1 Cristobalite 15468-32-3 Tridymite

CAS Number: PCT: Other Ingredients:

30.0 - 70.0%Alumina Silicate 1302-93-8 30.0 -70.0% Hydrous Alumina Silicate 1302-87-0

30.0% 6834-92-0 10.0 -Sodium Silicate

SECTION III - PHYSICAL DATA

Appearance and Odor: Tan, fine-grained, wet mixture, odorless.

Odor threshold (p.p.m.): Not applicable. Specific Gravity: Not available. Vapor Pressure (mm): Not applicable. Vapor Density (air=1): Not applicable. Boiling Point ('F): Not available. Solubility in Water: Not available. % Volatile (by weight): Not available.



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pH: 9 to 10.9 range Density: Not available.

Coefficient of Water/Oil Distribution: Not applicable.

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SECTION IV - FIRE AND EXPLOSION HAZARD \*\*\*\*\*\*\*\*\*\*

Flammability: This product is non-flammable and will not support

combustion.

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SECTION V - HEALTH HAZARD

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Threshold Limit Value:

For respirable dust containing crystalline silica:

OSHA :

ACGIH:

Quartz....0.1mg/m3

Cristobalite....0.05mg/m3

Tridymite.....0.05mg/m3

For all ingredients not listed above:

OSHA:.....10mg/m3 total dust

ACGIH:.....10mg/m3 total dust

Effects of Overexposure:

#### CRYSTALLINE SILICA:

Chronic overexposure to dust containing respirable sized crystalline silica (quartz, cristobalite, and tridymite) can cause delayed lung injury (silicosis).

Points of attack: Respiratory system and lungs.

Route of entry: Inhalation.

Inhalation of dust containing crystalline silica may contribute to pre-existing pulmonary diseases such as asthma and lung disorders associated with the smoking of tobacco.

Some recent animal studies have caused the International Agency for Research on Cancer (IARC) to categorize crystalline silica as a 2A carcinogen. A 2A carcinogen is one which:

- (1) there is sufficient evidence for the carcinogenicity to experimental animals.
- (2) there is limited evidence of the carcinogenicity to humans.

Toxicity data:

Quartz:

LCLo: 300ug/m3 / 10Y-I

inhalation human

Cristobalite: TCLo: 16 mppcf/8H/17.9Y-I

inhalation human

Tridymite: TCLo: 16 mppcf/8H/17.9Y-I

inhalation human

Note: LD50 and LC50 not available.

For more information on crystalline silica refer

to:

\$SDS # 4026-00 cont.

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(1) IARC Monograph, Volume 42

(2) NIOSH Document No. 75-120

SODIUM SILICATE:

Sodium silicate used in this product may cause skin and eye irritation.

Toxicity data:

Skin-human - 250mg/24hr - Severe.

LDLo: 250mg/kg (oral-dog)

LDLo: 200mg/kg (interperitoneal-guinea pig)

CARCINOGENICITY INFORMATION
With the exception of:
Crystalline silica

No ingredient in this product is found on either the Federal OSHA, NTP, or IARC list of

carcinogens.

Emergency and First Aid Data:

Skin: Wash thoroughly with soap and water.

Inhalation: Remove to fresh air.

Eyes: Flush with water for 15 minutes and get

medical help.

\*\*\*\*\*\*\*\*\* SECTION VI - REACTIVITY DATA

Stability and Reactivity: This product is stable and non-reactive.

Hazardous Decomposition: Crystalline silica levels in used refractories

may be higher or lower than as-shipped depending on service conditions. Hygiene monitoring must be done to insure the proper employee protection

during tearout.

\*\*\*\*\*\*\* SECTION VII - SPILL AND LEAK PROCEDURES \*\*\*\*\*\*\*\*\*\*\*\*\*

Steps to be Taken in Case of a Spill:

Avoid generating dust exposure during cleanup.

Waste Disposal Method: Dispose of material according to local, state or federal regulations and as final used condition of

the product dictates.

\*\*\*\*\*\*\*\*\*\*\*\*\* SECTION VIII - INDUSTRIAL HYGIENE INFORMATION \*\*\*\*\*\*

Ventilation: Local exhaust recommended to maintain exposures

below TLV.

Respiratory Protection: NIOSH approved dust type for exposures above TLV.

Protective Gloves: Impervious gloves recommended.

Eye Protection: Recommended.

Special Precautions: Avoid high temperature storage.

Precautionary Labeling: Product contains crystalline silica and

sodium silicate.

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WARNING: Prolonged inhalation of product dust may cause delayed lung injury (silicosis). Contact may cause irritation to eyes and skin.